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SA GAS MASER

SA INFRARED MASER

SA LASER

SA TRAVELING WAVE MASER

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SA ELECTRON MASS

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Welding technology and metal testing - Conference, Timisoara, Rumania, September 1965, Volume 1 03 p0374 A66-13116

Materials at cryogenic temperatures discussing thermal lattice effects, specific heat, electrical and thermal conductivity, thermal expansion and mechanical properties 04 p0534 A66-13371

Materials under high vacuum discussing degassing of metals, thin film deposition, food dehydration, vacuum melting and vacuum welding 04 p0534 A66-13373

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Soviet monograph on elastic and plastic deformation mechanism, describing stress-strain state of materials, cyclic, variable and reversed load effects, etc 13 p2206 A66-2646

Soviet monograph on structural mechanics, describing calculation of strength, rigidity, stability and oscillations 13 p2206 A66-2646

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- stress corrosion in titanium alloys noting measurement techniques, crack forming effect of chlorine and surface treatment via metal coating 19 p3378 A66-35651
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missiles, to blade erosion in steam turbines
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High strain rate deformation of solids
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Stress wave, deformation and fracture
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SA METALLURGY

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1965 02 p0243 A66-11736

Ultrapurification discussing definition,
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MOTOR

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S PULSE MOTOR
S ROCKET STEERING MOTOR
S SERVOMOTOR
S TORQUE MOTOR

MOTOR CASE

SA ROCKET MOTOR CASE
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S RIGID MOUNTING
S TAIL MOUNTING

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MOVING TARGET INDICATOR /MTI/

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S MOLTEN-SALT REACTOR /MSRE/

MTI

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DECTRA long range navigational aid, DECTRA airborne receiver and Omnitrac computer 07 p1068 A66-17702

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Optimum multichannel system utilization for receiving regular signal against background noise 13 p2026 A66-26477

Maximum channel capacity of tandem link multichannel troposcatter systems for specified noise level 14 p2243 A66-28347

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Vibrational characteristics, natural frequencies and associated composite loss factor of finite-length laminated beam with alternate elastic and viscoelastic layers [ASME PAPER 65-WA/APM-1] 05 p0776 A66-15425

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Behavior of carrier mobility in semiconductors with layered structure, with carriers acting as mobile particles in stack of independent layers 06 p0929 A66-16941

Muon detection and energy determination in multilayer system of ionization chambers and probability of finding muon in n-electron shower at depth t 07 p1117 A66-17569

Microminiature element packaging and multilayer circuits, discussing design and production 07 p1010 A66-18247

Stability of three-layer cylindrical shell in gas stream, analyzing oscillation mode and critical flutter dependence on filler resistance to transverse shear 08 p1314 A66-19581

Book on compound plastic deformation of layers of different metals during mechanical processing 09 p1465 A66-19948

Flexure of semilfinite nonsymmetric three-layer plate under steady transverse compression, using state equation to determine load values impairing equilibrium of plate 09 p1468 A66-20760

Variation in coercivity of magnetization loops of multilayer films of nickel as function of rate of rise in applied magnetic field 10 p1575 A66-21412

Vibrational characteristics, natural frequencies and associated composite loss factor of finite-length laminated beam with alternate elastic and viscoelastic layers [ASME PAPER 65-WA/APM-1]

Interaction between layers of ferromagnetic films of different composition and coercivity separated by insulating quartz layer, obtaining films by vacuum deposition

Mechanical behavior of three-layer plates with honeycomb filler under longitudinal compression

Bending problem of three-layer plates with fillers

Design equations for three-layer plate with rigid filler

Equations of three-layer nonshallow and shallow shells

Stability of three-layer cylindrical shells under compression, load and combined action

Stability of three-layer shells or plates beyond proportionality limit, obtaining critical stress

Bending equations of orthotropic three-layer plates with rigid

filler

Natural oscillations of three-layer circular cylindrical shells with freely supported and clamped edges

Gallium arsenide four-layer device doped with selenium fabricated by triple diffusion

Time domain method of relating cross coupling between transmission lines of multilayer structure to geometry in design of high speed digital

systems

Electrical resistance and Hall effect measurements in layer structures, confirming existence of interaction with optical relaxation vibration

modes

Approximate solution of unsteady thermal conductivity for plate with unlimited number of layers

Shingle attachment of multilayer insulation to cryogenic flight tanks

Compressive load effects on heat flux through multilayer

insulation

Air purging of high-performance multilayer insulation system with

helium

Transient gas-flow process in multilayer insulation systems during evacuation predicted by equations in conjunction with measured permeabilities and diffusion coefficients

Quadrupole relaxation in multilevel systems by method of kinetic

equations

Compression per stack layer varying as power of layer thickness when multilayer structures are compressed under loads of up to 5 x 10 super 3 lbf

Multilayer board and chip production techniques

Mariner IV temperature control subsystem hardware, examining thermal shields, thermally actuated louver system and flexible multilayer shields

[ASME PAPER 66-MD-64]

Four-layer p-n-p-n diodes having two separate capacitance modes enables use as controlled element in frequency keying circuits

Temperature distribution in two-layer plate during welding by laser light

flux

Electrolytic titanium coating properties, covering porosity coating elimination by repeated electrolysis

Heterojunction formation between substrate and compound semiconductor synthesized by substitution reaction during alloying process

Evaporation system for fabrication of multilayer dielectric films for mirrors or filters, obtaining thickness variation reduction and simultaneous

deposition

MULTIMODE RESONATOR

Fabry-Perot interferometer and confocal and spherical resonator, calculating integral

equations for eigenvalue and eigenfunction of lowest order TW

eigenmode

Laser deflection and scanning by means of multimode cavities with dynamic spatial filters

Light waveguide for general lens-like media, ideal lenses and continuous media with square-law index

variation

Spiking behavior of multimode ruby laser in spherical resonator, interpreting near-field patterns, frequency spectrum, etc

Two-level atom interaction with multimode gas laser cavity, obtaining stationary state and solving unique eigenvalue in special cases

Multimode ruby resonator output as affected by mode number and mode degeneracy

Phase fluctuations of multimode oscillators detected by nonlinear transformations of oscillations

Probability of spontaneous emission of particles in multimode resonator with several related types of

oscillations

Intensity and frequency equations for interband optical transitions and multimode properties in semiconductor

lasers

MULTIPACTOR

Multipactor effect in X-band waveguide slots, determining multipacting occurrence and parallel plate role

MULTIPATH PROPAGATION

Frequency diversity can increase degree of compensation for multipath fading and thus improve communication reliability of airborne UHF

communications

Exoionospheric communications system with ideal matched filter and signal processing at transmitter for increased range and secure coding

possibilities

Simultaneous measurement of multipath and Doppler spread in real time involving fading transmission media such as HF and troposcatter

[IEEE PAPER CP 65-524]

Error probability limitations caused by multipath and Doppler smear in Kathryn modem

Nonorthogonal coding in communicating through dispersive or multipath fading channels for increased data rate without increased bandwidth

Fading and multipath propagation mechanism for communication links involving satellites and aircraft with antenna beams, assuming fading models and estimating margin required for FSK teletype transmission

[AIAA PAPER 66-294]

Tropospheric induced distortion in frequency band amplitude and delay time of radio signal transmitting over wide frequency bands

Extension of work on ground wave propagation along two-section mixed paths to three-section paths, using microwave frequency, water and aluminum

plates

Laboratory environment simulation of multipath propagation interference effects on low channel capacity FM

systems

MULTIPHASE FLOW

Multiphase flow system with regard to chemical and nuclear processes, rocketry and air pollution control noting adiabatic potential, laminar and electrodynamic flow

MULTIPLE BEAM INTERVAL SCANNER

/MUBIS/

Transformation technique enables any aperture distribution of circular array to be electronically rotated by phasing techniques for linear array

MULTIPLE-DEGREE-OF-FREEDOM SYSTEM

Relation between exact and approximate solutions to equations of dynamics within finite time interval, noting stability of systems with many degrees of

freedom

Mechanism having six degrees of freedom

for flight simulation in pilot training

MULTIPLEX TRANSMISSION

Possibility of circuit designs without inductors in future multiplex technique systems

Constant bandwidth baseband with laboratory telemeter in binary configuration for RF application

Medium-capacity satellite receiving system for multiplex FM telephony

transmission

Scope display width expansion via simple switching circuit with binary counter and several resistors

Multiplex access modulation techniques /frequency-division, time-division, spread-spectrum and pulse-address/ for use in communications satellites

[AIAA PAPER 66-278]

Communications satellites for small nations, describing requirements of worldwide multiple access system

[AIAA PAPER 66-281]

Communications satellite system efficiency enhanced by using automatic adaptive voice multiplexer in ground terminal equipment

[AIAA PAPER 66-291]

Flexible commutation system for routing numerous signal-carrying leads to centrally located multiplexer for

Saturn

Multiple-access systems and characteristics in communications satellite applications, specifically frequency-division multiplex and spread-spectrum modes

Frequency-division multiplexing capable of being effectively integrated with time-division switching, examining transmission path between sideband

filters

MULTIPLEXER

SA FREQUENCY-DIVISION MULTIPLEXING

SA ORTHOGONAL WAVEFORM MULTIPLEXING

SA TIME DIVISION MULTIPLEX

Microelectronics pulse code modulation /PCM/ multiplexer-encoder for Apollo spacecraft, emphasizing packaging techniques, discussing advance circuit design techniques

Solid state time domain multiplexers using advanced devices

Multiplexer coder unit for AC carrier transducers and DC signals used in PCM flight trials system

Pulse amplitude/code modulation /PACM/ system design noting word format, synchronization methods, carrier, etc

MULTIPLIER

SA ELECTRON MULTIPLIER

SA FREQUENCY MULTIPLIER

SA LAGRANGE MULTIPLIER

SA PHOTOMULTIPLIER

Two-parabola type multiplying circuit constructed on principle of z plane consisting of linear superposition of at least two substitute planes

Analog multiplier-divider based on properties of saturated

transistors

Electronic analog computer nonlinear function generation by using silicon carbide varistors

Hall effect multiplier for noise measurement, generation of single sideband and phase-modulated signals, etc

Static errors in Hall effect multiplying devices

Digital multiplier with incremental computing system, noting series and parallel addition system and sequential multiplication with incremental values

Distribution function for probability density of random process at output of multiplier acted upon by envelopes consisting of Gaussian noise and pulse signal

MULTIPLIER PHOTOTUBE

S PHOTOMULTIPLIER

MULTIPOLAR FIELD

Formalism for determining linearized hydromagnetic wave phenomena in perfectly conducting plasma permeated by static

magnetic multipole field 05 p0720 A66-14709
 Multipole moments in Einstein gravitational theory 14 p2330 A66-27020
 Plasma injection and confinement in stellarator magnetic trap with multipolar helical field, noting magnetic surfaces and perturbation effect 19 p3429 A66-36582

MULTIPROGRAMMING
 Lockheed multiprocessor simulation system /LOMUSS I/, data processing system for computer design and analysis 12 p1827 A66-23832
 Real time ground computer for Athena system and input/output data requirements in multiprocessing jobs 12 p1827 A66-23836

MULTISTAGE COMPRESSOR
 Blade root for split disk experimental multistage air turbine, citing two-dimensional photoelastic analysis and pull-out test 08 p1281 A66-18629

MULTISTAGE ROCKET
 Plane trajectory with multistage rocket in minimum climb-time 02 p0296 A66-11703
 Square flare for stabilizing upper stages of multistage ballistic missiles, discussing test results and aerodynamic advantages over conical flare 03 p0432 A66-12770
 Optimal steering and staging of multistage boosters using extended variational method to include variable discontinuities at corners [AIAA PAPER 65-62] 03 p0432 A66-12781
 Dynamic programming applied to numerical solution of optimization problems of flight mechanics 04 p0584 A66-13523
 Optimum stage weight distribution in multistage rocket obtained by discrete maximum principle [ASME PAPER 64-WA/AV-5] 04 p0586 A66-14027
 Multistage rocket acceleration by explosive separation of individual stages, solving optimization problems connected with problem 11 p1777 A66-22456
 Multistage rocket trajectory optimization, extending maximum principle to include Weierstrass and Jacobi conditions 11 p1733 A66-23337

MULTISTAGE ROCKET VEHICLE
 Calculus of variations method used to maximize payload capability for multistage launch vehicles [AIAA PAPER 66-92] 08 p1304 A66-18998
 Aeroelastic effects due to changes in aerodynamic gain, load factor and structural stresses relative to infinitely stiffened structure in multistage slender missiles 20 p3666 A66-37430
 Guidance scheme for control of multistage rocket vehicle through ascent phase of complex space mission [AIAA PAPER 64-640] 20 p3597 A66-38156

MULTISTAGE VEHICLE
 Hybrid type two- or three-stage aerospace vehicle design to place payload in orbit, discussing recoverable stages, drives and air breathing engines 16 p2635 A66-31682
 Increased payload capability of Saturn IB launch vehicle by addition of zero stage to core vehicle which ignites before first stage [SAE PAPER 660451] 17 p3017 A66-33160
 Optimum stage initial acceleration and velocity distribution between stages for maximum payload ratio in single and multistage vehicles 19 p3470 A66-36620
 Optimization methods for preliminary cost and mass distribution assessment for multistage rocket vehicles 19 p3470 A66-36622

MULTIVIBRATOR
 Effectiveness of oscillatory circuits and delay lines for self-synchronization of polyphase multivibrators 01 p0045 A66-10992
 Tunnel diode monostable multivibrator studied by single trajectory on I-V characteristics of tunnel diode 03 p0343 A66-13013
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 Single tunnel diode multivibrator producing stable frequency division by factors to ten 06 p0852 A66-16511
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SA HARMONIC OSCILLATION

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SA ION OSCILLATION

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SA ELECTRON TUBE

SA HARMONIC OSCILLATOR

SA MECHANICAL OSCILLATOR

SA MOLECULAR OSCILLATOR

SA PARAMETRIC OSCILLATOR

SA SUBHARMONIC OSCILLATOR

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SA ALUMINUM OXIDE
SA BERYLLIUM OXIDE
SA BISMUTH OXIDE
SA BORON OXIDE
SA CALCIUM OXIDE
SA COBALT OXIDE
SA COPPER OXIDE
SA DEUTERIUM OXIDE
SA GERMANIUM OXIDE
SA IRON OXIDE
SA LANTHANUM OXIDE
SA LEAD OXIDE
SA MAGNESIUM OXIDE
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SA METAL OXIDE
SA NICKEL OXIDE
SA NIOBIUM OXIDE
SA NITROGEN OXIDE
SA PEROXIDE
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PARTICLE

SA ANTIPARTICLE

SA CHARGED PARTICLE

SA ELEMENTARY PARTICLE

SA METAL PARTICLE

SA MICROPARTICLE

SA NEUTRAL PARTICLE

SA NUCLEAR PARTICLE

SA PENETRATING PARTICLE

SA PLASMA-PARTICLE INTERACTION

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SA QUARK

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PARTICLE ACCELERATOR

SA CYCLOTRON
SA ELECTRON ACCELERATOR
SA ELECTRON GUN

SA LINEAR ACCELERATOR

SA SYNCHROTRON

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SA MOLECULAR BEAM
SA NEUTRAL BEAM
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SA CHARGED PARTICLE

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SA MOLECULAR COLLISION

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SA CORE FLOW

SA COSMIC PLASMA

SA DEUTERIUM PLASMA

SA ELECTRON PLASMA

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SA HELIUM PLASMA

SA HIGH TEMPERATURE PLASMA

SA HYDROGEN PLASMA

SA MAGNETOIONIC PLASMA

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SA NONEQUILIBRIUM PLASMA

SA NONUNIFORM PLASMA

SA ONSAGER PHENOMENOLOGICAL COEFFICIENT

SA PLASMA-ELECTROMAGNETIC INTERACTION

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Corticosterone injection in rats, assaying amino acid incorporation into liver microsomal and cell-sap protein

PROTEINOID

Future of environmental biology, discussing space research on living organisms in extraterrestrial environment

Accelerated sodium pyruvate decomposition in aqueous solution due to proteinoids produced by thermal condensation

PROTOBIOLOGY

Substrate specificity of proteolytic enzyme thermolysin /Thermolase/ isolated from bacterial cultures

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SA RECOIL PROTON

SA SOLAR PROTON

Low energy proton effect on thermal control coatings

[AIAA PAPER 65-648]

Proton and alpha particle effects on thermal properties of spacecraft and solar concentrator coatings of anodic-coated aluminum, zinc oxide/ potassium silicate, etc

[AIAA PAPER 65-649]

Difference magnetic analyzer of low-energy electrons and protons in which particles are separated before arriving at

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Time and altitude dependence of 55-mev trapped protons in South Atlantic region detected by nuclear emulsions onboard satellites

IR spectroscopy to determine constant of self-combination of donor acceptors of protons in dilute solution

Proton concentration of hydrogen plasma in alpha apparatus by probe with fast-atom beams

Pitch-angle distribution and differential energy spectrum of polar aurora protons penetrating Earth

atmosphere

Difference magnetic analyzer of low-energy electrons and protons in which particles are separated before arriving at

detector

Mariner IV observation of 500-kev protons in interplanetary space

Effect of 49-, 64-and 100-term expansion of geomagnetic field on reduction of omnidirectional proton counting rate data

Solar modulation of galactic protons and helium nuclei from 1963 to 1965

Balloon-borne Cerenkov scintillation counter for measurements of primary proton and helium spectra and modulations

Shower production by pions and protons with momenta 0.1 and 20 gev/c in thin layers of matter, determining secondary particle energies and multiplicities

Proton concentration of hydrogen plasma in alpha apparatus by probe with fast-atom beams

Excitation of ground state hydrogen atoms by fast protons, evaluating total Born cross section in limit of infinitely massive protons

Corpuscular radiation from UV Ceti stars assumed to be mainly protons, noting role of interstellar matter

Proton environment above 4 mev in model constructed by using exponential energy spectrum

Chirp-radar pulse compression by proton-spin echoes, noting leakage and attenuation

Nuclear magnetic resonance techniques applied to nitrogen tetroxide for determining proton content, noting gas chromatograph with two stainless steel columns packed with porous glass

Large air Cerenkov counter construction and performance characteristics for use in

distinguishing protons and pions in cosmic radiation in 10-45 gev energy region

PROTON I SATELLITE

Soviet space station Proton I placed in orbit July 16, 1965 for solar and cosmic radiation studies

Proton I scientific space station for investigation of ultrahigh energy cosmic ray problems

Proton I and II space stations to study cosmic ray particles of high and ultrahigh energies

Primary cosmic ray energy spectrum measurements via Proton I satellite, noting inelastic interaction cross sections, chemical composition, etc

PROTON BEAM

Classification of possible gyroresonance interactions between plasma and proton beam for strictly longitudinal propagation and comparison with TWT terminology

Instability of cold plasma interacting with helical proton beam in magnetic field

Proton flux measured by satellite at high latitude compared to ionospheric absorption measured with riometers, noting absorption variation with latitude across polar caps

Energy spectra of electrons and protons in islands at back of magnetosphere compared with electron fluxes observed by satellites, noting similarity between particles in islands and those in aurora

High energy particle interaction research, noting that within eight years accelerators will be capable of beams of 28 plus 28 bev protons

Charge exchange of protons in alkali metal vapors with formation of highly excited hydrogen atoms, noting cross section, reaction mechanism, etc

PROTON BELT

SA RADIATION BELT

Four-channel silicon detector and scintillation counter for measuring proton spectrum of Earth radiation belts

Relay I satellite mapping of energy spectrum and spatial distribution of protons in inner radiation belt

Ring current growth tendency prior to sudden magnetospheric compression

Upper bounds on steady state and pulse outflow of neutrons from Sun determined by assuming neutron-decay protons diffuse in interplanetary magnetic field

Violation of second and third adiabatic invariants, examining mirror point change of trapped particles under displacement of guiding centers along force-lines and particle diffusion

Low-energy protons and electrons of outer radiation belt measured by equipment onboard Cosmos XLI

Latitude and longitude variation of count rate and intensity-time dependence of proton flux in inner radiation belt measured by Anton 302 G-M counter in Ariel I satellite

Temporal stability of inner zone protons determined by Injun I satellite measurements in vicinity of South Atlantic magnetic anomaly

Intensity and spectra of 100 to 1700 kev protons in region above two earth radii measured by charged particle detectors on Explorer XII, XIV and XV

Injection of protons into inner radiation belt caused by decay of fast cosmic ray albedo neutrons and superimposition of low-energy protons of unknown origin

Acceleration processes of outer zone protons investigated, using Kellogg hypothesis of radiation belt formation through magnetic disturbances where third adiabatic invariant is violated

Initial energy spectrum and flux of low energy protons responsible for luminescence of hydrogen in auroras

Equatorial measurement of intensity of

protons with energies greater than 400 kev and electrons with energies greater than 1 mev in outer radiation belt center

PROTON DAMAGE

Proton and electron damage to silicon semiconductor device

Low energy proton damage to partially shielded solar cells, noting invalidity of simple area scaling law in predicting decrease in open circuit voltage

PROTON DENSITY

SA MAGNETOSPHERIC PROTON DENSITY

Rocket measurements discussing electron and proton flux, energy spectra and angular distribution in high altitudes

Spatial distribution of protons and electrons captured by terrestrial magnetic field, as measured by Cosmos satellites

Total counting rate and detected multiplicity spectrum of standard IGM neutron monitor analyzed on basis of neutron production and cosmic radiation components

Electronic whistlers for calculation of proton density at satellite heights, based on symmetry existing in expressions containing two time and frequency variables

Statistical equilibrium of fundamental particles at elevated temperatures, determining degeneration parameters

Possible enhancement to low-energy atmospheric proton flux induced by passage of Ikeya-Seki comet examined, using balloon-borne scintillation counter and pulse height analysis techniques

Fluxes, intensities and energy distributions of magnetically trapped electrons and fluxes of magnetically trapped protons at lower edge of radiation belt

PROTON ENERGY

Physical description, module fabrication, sensor construction and calibration details of plasma probe carried on Mariner IV

Satellite observation of solar protons from flares in September 1963, measuring impact zone effect, differential spectrum, latitude distribution of proton energies, proton fluxes, cosmic noise absorption, etc

Rocket measurement of energetic particles discussing proton flux, energy spectra, pitch angular distribution and data

High energy protons in synchrocyclotron testing of polyethylene, aluminum, lead and titanium hydride materials

High energy proton from local radio sources, using telescopic system for Cerenkov effect detection of broad atmospheric showers

Explorer satellite XII, XIV and XV measurements, noting directional intensity energy flux, spatial distribution and spectra of low energy trapped protons and electrons

Cosmos XLI satellite measurements of low energy proton distribution and intensity

Proton injection into radiation belts for large B-L space regions by cosmic ray and solar proton albedo neutron decay injection

Flyable space radiation detector based on spark chamber technology for measuring unidirectional proton spectra in six energy intervals

Mathematical construction of extensive air shower based on hypotheses for nuclear phenomena, noting proton-proton interaction, pion generation, etc

Electron and proton differential velocity spectra observed for low-energy relativistic cosmic rays, noting spectral neutrality of radiation

Proton transfer between hydrogen and methane, ethane, propane and butanes, using high-pressure mass spectrometry, employing

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SA BACKGROUND RADIATION
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 Book on physical gas dynamics including transport theory, kinetic theory, thermodynamics, equilibrium, fluid flow, radiative transfer, etc 05 p0666 A66-15848
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RADIATOR

SA HEAT REJECTION DEVICE

SA SPACE RADIATOR

SA SPACECRAFT RADIATOR

SA THERMIONIC RADIATOR

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RADICAL

SA FREE RADICAL

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Radio observation of planetary and stellar emission and effects of terrestrial atmosphere 09 p1454 A66-20289

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RANGE

S BALLISTIC RANGE

S FREQUENCY RANGE

S MISSILE RANGE

S RADAR RANGE

S RADIO RANGE

S REENTRY RANGE

S TEST RANGE

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S OPTICAL RANGEFINDER

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SA CERIUM
SA DYSPROSIUM
SA ERBIUM
SA EUROPIUM
SA GADOLINIUM
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SA LANTHANIDE
SA LANTHANUM
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SA ERBIUM ALLOY

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RARE GAS
SA ARGON
SA HELIUM
SA KRYPTON
SA NEON
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S RADAR DIRECTION FINDER

S RADIO DIRECTION FINDER

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S CHEMICAL REACTION

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SA BOILING WATER REACTOR

SA CHEMICAL REACTOR

SA FAST REACTOR

SA GAS COOLED REACTOR /GCR/

SA GASEOUS FISSION REACTOR

SA KIWI ROCKET REACTOR

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SA FUEL ELEMENT
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SA DELAY LOCK

SA LINEAR RECEIVER

SA LOGARITHMIC RECEIVER

SA MULTICHANNEL RECEIVER

SA RADAR RECEIVER

SA RADIO RECEIVER

SA SINGLE-SIDEBAND RECEIVER

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S RADAR RECEPTION

S RADIO RECEPTION

S SIGNAL RECEPTION

S TELEVISION RECEPTION

RECEPTOR

SA THERMORECEPTOR

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S CHARACTER RECOGNITION

S MACHINE RECOGNITION

S PATTERN RECOGNITION

S TARGET RECOGNITION

RECOIL ATOM

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RECOIL PROTON

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SA ATOMIC RECOMBINATION

SA ELECTRON-ION RECOMBINATION

SA ELECTRON RECOMBINATION

SA HYDROGEN RECOMBINATION

SA ION RECOMBINATION

SA OXYGEN RECOMBINATION

SA RADIATIVE RECOMBINATION

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Generation recombination noise in Ge single crystals under fast neutron irradiation, using reversible technique to vary noise parameters 16 p2778 A66-31072

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SA DATA RECORDER

SA ELECTRONIC RECORDING

INSTRUMENT

SA FLIGHT LOAD RECORDER

SA FLIGHT RECORDER

SA MAGNETIC TAPE RECORDER

SA PHOTOGRAPHIC RECORDING

INSTRUMENT

SA PLOTTING INSTRUMENT

SA PULSE RECORDER

SA TAPE RECORDER

SA VERY LOW FREQUENCY EMISSION
RECORDER

SA WHISTLER RECORDER

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conditions of jet engine up to overhaul,
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etc 13 p2076 A66-25078

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SA MOLECULAR ROTATION

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SA COMPRESSOR ROTOR

SA HELICOPTER ROTOR

SA LIFTING ROTOR

SA RIGID ROTOR

SA WING

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SA CHEMICAL RELAXATION

SA NORMAL SHOCK WAVE

SA OBLIQUE SHOCK WAVE

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SIC**S STRUCTURAL INFLUENCE**

COEFFICIENT /SIC/

SICKNESS**S DECOMPRESSION SICKNESS****S MOTION SICKNESS****S RADIATION SICKNESS****SID****S SUDDEN IONOSPHERIC**

DISTURBANCE /SID/

SIDEBAND**SA DOUBLE-SIDEBAND RADIO**

COMMUNICATION

SA SINGLE-SIDEBAND DEMODULATION**SA SINGLE-SIDEBAND MODULATION****SA SINGLE-SIDEBAND RECEIVER**

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S COHERENT SOURCE

S ELECTRON SOURCE

S ENERGY SOURCE

S HEAT SOURCE

S ION SOURCE

S LIGHT SOURCE

S NEUTRON SOURCE

S POWER SUPPLY

S RADIATION SOURCE

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S FREE SPACE

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SA MANNED ORBITAL LABORATORY

/MOL/

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SA FERMI STATISTICS

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SA STANDARD DEVIATION

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SS
ACCELERATION STRESS
AXIAL STRESS
BUCKLING
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CRACK
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FAILURE
FATIGUE
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SA COAXIAL TRANSMISSION

SA COHERENT TRANSMISSION

SA DATA TRANSMISSION

SA FACSIMILE TRANSMISSION

SA LIGHT TRANSMISSION

SA MICROWAVE TRANSMISSION

SA MULTIPLEX TRANSMISSION

SA NEURON TRANSMISSION

SA POWER TRANSMISSION

SA PULSE TRANSMISSION SYSTEM

SA RADAR TRANSMISSION

SA RADIO TRANSMISSION

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TRANSMISSION LINE

SA ANTENNA COUPLER

SA CLUTCH

SA COAXIAL CABLE

SA DELAY LINE

SA FLUID TRANSMISSION LINE

SA WAVEGUIDE

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Resonance modes in rods for analyzing coupled oscillations in sandwich plates including differential equations for oscillations

Turbulence wake suppression in Karman vortex street of circular cylinders by controlling transverse oscillations of vortex generating cylinder in transition range

Time resolved photoluminescence spectra of two green broad emission bands in CdS as function of temperature, attributing new structure to transverse optical phonons

Kinetic oscillation of nonhomogeneous collision plasma, discussing drift instability, ionization, longitudinal current effect, etc

Transverse magnetic field effect on drifting hot plasma resonance peaks, noting oscillation mechanism and application of successive moments of Boltzmann equation

Experimental observation of regular spiking in neodymium doped glass laser rod attributed to simultaneous oscillation of many transverse and longitudinal modes

Collisionless Boltzmann and Maxwell equations for plasma instability of plasma without external magnetic field for transverse oscillation propagating perpendicular to streams

Unstable transverse potential oscillations in plasma with beam anisotropy and initial density modulation and analogy with known electrostatic oscillations

Dynamic instability of longitudinal and transverse oscillations of rod, emphasizing fluctuation having property of white noise with unit spectral density

Natural frequency equations for TEM mode oscillations of coaxial resonator with moving dielectric material

Kinetic oscillation of nonhomogeneous collision plasma, discussing drift instability,

ionization longitudinal current effect, etc

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Transverse vibrations of viscoelastic shaft fixed at one end and supporting mass subjected to sinusoidal force at other

Axiallysymmetric transverse vibrations of spinning membrane disk centrally-clamped between collars with Coulomb friction at disk-collar interface

Large amplitude oscillation of anisotropic triangular plates

Torsional instability of cantilevered bars, describing effects of distributed nonconservative compressive load at free end

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Helicons in n-type silicon and germanium, calculating collective modes of electrons in external magnetic field from frequency and wavelength-dependent conductivity tensor

Air disturbances due to small transverse vibrations of finite span thin wing with variable velocity

Classical theory of flexural motions of elastic plates used to determine natural frequencies of uniform annular plates for nine combinations of boundary conditions

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Approximate formulas for upper and lower values of natural frequencies for transverse vibrations of cantilever bars of variable cross section

Frequency equations and mode displacement functions derived for plane strain free-transverse vibration of solid cylinder with elastic core bonded to thin elastic shell

Small transverse vibrations of linearly viscoelastic Timoshenko beam of incompressible material, detailing free and forced vibration

Motion equations for large-amplitude transverse vibrations of tensioned string and necessary conditions for linearization

Spatial correlation coefficients and transverse temperature perturbation scales during turbulent nonisothermal flow of mercury in circular pipe

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Band stop filters, discussing insertion loss vs frequency characteristics for large and small dissipation and arbitrary number of resonators

Transverse propagation of vertically polarized electromagnetic waves in horizontally stratified horizontally-magnetized plasma

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Short wave asymptotics of diffraction field at sphere for incident plane transverse

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Propagation of quasi-TEM mode in ferrite-filled coaxial line

Solid state amplifiers using streaming carriers analyzed, noting different role played by collisions when electron stream interacts with TM and TEM waves

Aperture field of leaky-wave antenna of finite length

Transverse wave FM phototube system for detection of microwave-frequency modulated light, noting design, operation and application

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Desirable TEM wave instabilities in solid state plasma in electromagnetic field

TE surface wave determined by propagation and external magnetic field directions used in microwave circuits

Cut-off wavelength of transverse electrostatic wave mode in ridged rectangular waveguide of arbitrary aspect ratio

Thin-iris loaded planar waveguide, considering phase shift and series representation

Quasi-linear perturbation theory of transverse electromagnetic waves from instabilities in nonthermal magnetoactive plasma, using Boltzmann equation, applied to magnetospheric MHD emissions

Excitation of longitudinal electron plasma oscillations by nonlinear resonance of two TEM waves with frequencies differing by plasma frequency

Scattering cross section for Langmuir waves and transverse waves using nonlinear integral equations describing plasma interaction of electromagnetic waves

Transformation of electromagnetic and plasma waves at critical fluctuations of transverse or longitudinal field of nonequilibrium plasma

Integral equations of current derived for TM and TE waves in excited inhomogeneous impedance band in half-plane

Longitudinal and transverse waves transformation in nonuniform plasma

Linearized equations describing transverse waves in relativistic plasma embedded in magnetic field and in presence of nonrelativistic plasma

Ultrasonic attenuation in lithium fluoride from liquid helium to room temperature, finding anharmonic attenuation of slow transverse mode to vary with frequency

TE wave scattering by dielectric cylinder of arbitrary cross section shape, including effects of surface wave excitation and mutual interaction

Plasmon decay-type interactions in plasma with intensive transverse Langmuir waves, analyzing induced scattering

Behavior of transverse wave numbers /separation constant/ for electromagnetic wave propagation in anisotropic homogeneous cold plasma of arbitrary cross section

Ultrasonic attenuation coefficient of transverse wave in gapless superconductor, noting effect on critical field and parameter amplitude

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SA SCHULER TUNING

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TUNNEL

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- Atmospheres of Venus and Mars-Astrophysics Conference, Kiev, Ukrainian SSR, June 1964 08 p1293 A66-19322
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S VOR SYSTEM

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SA GROUND WAVE

SA H-WAVE

SA IONIC WAVE

SA LAMB WAVE

SA LEE WAVE

SA LOADING WAVE

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SA MAGNETOACOUSTIC WAVE

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SA PLANE WAVE

SA PLASMA WAVE

SA PRESSURE WAVE

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